



IN REPLY PLEASE REFER TO

State of New Jersey  
DEPARTMENT OF TRANSPORTATION

THOMAS M. DOWNS  
COMMISSIONER

1035 PARKWAY AVENUE  
CN 600  
TRENTON, NEW JERSEY 08625

Broken Portland Cement  
or Bituminous Concrete  
in Embankments

93025 ADU

October 14, 1993

MEMORANDUM

All Design Units

Subject: Revision to the 1989 Standard Specifications,  
Sections 201 and 202

The Supplementary Specifications for all projects shall include revision to Subsections 201.09, 202.04, 202.08, 202.12 and 202.13 of the 1989 Standard Specifications to change to criteria for reuse of broken portland cement concrete and excavated bituminous concrete in embankments, and the disposal requirements for all solid waste on Department projects. These changes are in accordance with NJDEPE regulations which classify broken concrete and excavated bituminous concrete as solid wastes.

In implementing these changes, designers shall determine if the construction meets the criteria to permit the reuse of the broken concrete or excavated bituminous concrete from the project in the embankments. This determination shall then be reflected in the Earthwork Summary with the excess broken concrete or excavated bituminous concrete indicated as unusable. Designers shall also address the additional borrow required to replace the unusable material, its cost and the disposal cost of the unusable material.

The specific text changes are as stated herein.

The following text shall be inserted after line 2786 of SI89 ROAD6:

OX 201.09 DISPOSAL OF MATERIALS AND DEBRIS.  
OX -----  
X THIS SUBSECTION IS CHANGED TO:  
X  
OX THE DISPOSAL OF MATERIALS AND DEBRIS ACCUMULATED BY CLEARING  
OX SITE; DEMOLITION OF BUILDINGS; REMOVAL OF BRIDGES, ROADWAYS, CUL-  
X VERTS AND OTHER STRUCTURES IS REGULATED UNDER THE SOLID WASTE MAN-  
X AGEMENT ACT (NJSA 13:1 E-1) AND IS GOVERNED BY NJAC 7:26 ET SEQ.  
X THE CONTRACTOR SHALL DISPOSE OF THE MATERIAL AND DEBRIS IN ACCORD-  
OX ANCE WITH THE SOLID WASTE MANAGEMENT PLAN DEVELOPED BY THE SOLID  
OX WASTE MANAGEMENT DISTRICT OF ORIGIN. PROPER DOCUMENTATION FROM  
X THE DISPOSAL FACILITY SHALL BE SUBMITTED TO THE RESIDENT ENGINEER.  
X

The following text shall be inserted after line 30 of SI89 GEOTEK2:

OX 202.04 EXCAVATION.

OX -----

X THE SIXTH PARAGRAPH IS CHANGED TO:

X

OX EXCAVATED MATERIAL SHALL NOT BE DEPOSITED OUTSIDE THE LIMITS  
OX OF CONSTRUCTION WITHOUT WRITTEN PERMISSION AS SPECIFIED IN SUB-  
X SECTION 202.12.

X

X THE FOLLOWING IS ADDED AFTER THE SIXTH PARAGRAPH:

X

OX EXCAVATED BITUMINOUS CONCRETE WHICH IS NOT RECYCLED MAY BE  
OX PLACED IN THE LOWER PORTION OF ZONE 3 EMBANKMENT AND SPREAD OUT  
X IN LAYERS WITH THE PIECES LYING FLAT AND NOT ARCHING WITH SPACES  
X BETWEEN THE PIECES FILLED WITH EARTH. THE MAXIMUM SIZE OF THE  
X BITUMINOUS CONCRETE SHALL BE 2 CUBIC FEET. THE BITUMINOUS CON-  
X CRETE SHALL NOT BE PLACED WITHIN 2 FEET OF THE FINAL SUBGRADE OR  
OX LESS THAN 3 FEET ABOVE THE HIGHEST SEASONAL HIGH GROUND WATER  
OX TABLE AS DEFINED BY THE NJDEPE OR WITHIN 2 FEET OF ANY UNDERGROUND  
X UTILITY.

X

OX 202.08 REMOVAL OF CONCRETE BASE AND CONCRETE SURFACE COURSES.

OX -----

X THE THIRD PARAGRAPH IS CHANGED TO:

X

OX BROKEN CONCRETE AND ANY OVERLAYING BITUMINOUS MATERIALS MAY  
OX BE PLACED IN THE LOWER PORTION OF ZONE 3 EMBANKMENT AND SPREAD OUT  
X IN LAYERS WITH THE PIECES LYING FLAT AND NOT ARCHING WITH SPACES  
X BETWEEN THE PIECES FILLED WITH EARTH. THE MAXIMUM SIZE OF THE  
X BROKEN CONCRETE SHALL BE 2 CUBIC FEET. THE BROKEN CONCRETE SHALL  
X NOT BE PLACED WITHIN 2 FEET OF THE FINAL SUBGRADE OR LESS THAN 3  
OX FEET ABOVE THE HIGHEST SEASONAL HIGH GROUND WATER TABLE AS DEFINED  
X BY THE NJDEPE OR WITHIN 2 FEET OF ANY UNDERGROUND UTILITY. COM-  
OX PACTION SHALL BE IN ACCORDANCE WITH SUBSECTION 203.09. IF SUCH  
OX USE IS NOT POSSIBLE, THE BROKEN CONCRETE SHALL BE DISPOSED OF IN  
X ACCORDANCE WITH SUBSECTION 202.12.

X

OX 202.12 DISPOSAL OF EXCESS OR UNUSABLE MATERIAL.

OX -----

X THE HEADING AND ENTIRE TEXT OF THIS SUBSECTION IS CHANGED TO:

X

OX 202.12 DISPOSAL OR REUSE OF EXCESS OR UNUSABLE MATERIAL.

X

OX EXCESS EXCAVATED EARTH MAY BE PERMITTED TO BE REUSED TO WIDEN  
OX OR FLATTEN SLOPES OF EMBANKMENT, OR TO FADE EMBANKMENTS INTO CUTS,  
X OR REUSED AS APPROVED AT OTHER LOCATIONS OR DISPOSED OF.

X

OX EXCESS ROCK EXCAVATION MAY BE PERMITTED TO BE USED ALONG  
OX SLOPES ADJACENT TO STREAMS FOR SLOPE PROTECTION IN ACCORDANCE WITH  
X SUBSECTION 616.08.

OX EXCESS BROKEN CONCRETE AND BITUMINOUS CONCRETE MAY BE  
OX PERMITTED TO BE USED IN THE CONSTRUCTION OF EMBANKMENTS IN  
X ACCORDANCE WITH SUBSECTIONS 202.04 AND 202.08.  
X

OX EXCESS MATERIAL OTHER THAN EARTH OR ROCK NOT USED AS SPECI-  
OX FIED ABOVE SHALL BE RECYCLED OR DISPOSED OF IN ACCORDANCE WITH  
X SUBSECTION 201.09.  
X

OX EXCESS EARTH OR ROCK NOT USED AS SPECIFIED ABOVE AND UNUSABLE  
X SOIL OR ROCK SHALL BE PLACED AT SITES PROVIDED BY THE CONTRACTOR  
OX OUTSIDE OF THE STATE RIGHT OF WAY AND OUT OF SIGHT, DURING ALL  
X SEASONS, OF ANY STATE HIGHWAY.  
X

OX WRITTEN PERMISSION OF THE PROPERTY OWNER ON WHOSE PROPERTY  
OX THE EARTH OR ROCK ARE TO BE PLACED AND COPIES OF ALL APPROVALS OR  
X PERMITS NECESSARY SHALL BE FURNISHED TO THE ENGINEER.  
X

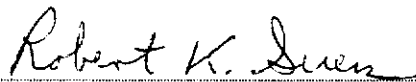
OX 202.13 DISPOSAL OF REGULATED WASTE.  
OX -----

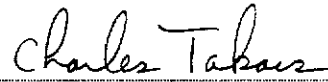
X THIS SUBSECTION IS CHANGED TO:  
X

OX REGULATED WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH  
X SUBSECTION 201.09.  
X

RECOMMENDED BY:

APPROVED BY:

  
Robert K. Suess  
Chief, Bureau of Roadway  
Plans and Specifications

  
Charles Takacs  
Director of Roadway Design  
(Chief Engineer of Roadway Design)

Implementation Code B

CT:FIS:FC:ab

93025 ADU